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FIELD EVALUATION OF AUSTRALIAN RATION PACKS. COMBAT RATION (ONE--ETC(U)
SEP 79 D J LICHTENSTEIN
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Scottsdale, Tasmania

AFFSE REPORT 5/79

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Field Evaluation
of
Australian Ration Packs

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COMBAT RATION (ONE MAN) 1976/77
Packaging Programme Trialled at
EXERCISE TOP POINT.

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D. J. LICHTENSTEIN

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DEPARTMENT OF DEFENCE
ARMED FORCES FOOD SCIENCE ESTABLISHMENT

AFFSE REPORT 5/79

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FIELD EVALUATION OF AUSTRALIAN RATION PACKS
COMBAT RATION (ONE MAN) 1976/77 PACKAGING PROGRAMME
TRIALLED AT EXERCISE TOP POINT

D. J. LICHTENSTEIN

SUMMARY

Menus A, B, C and D of the Combat Ration (One Man) 1976/77 packaging programme were trialled at Exercise Top Point and compared with results from previous trials.

With 2 exceptions these results confirmed previous findings on the acceptability, adequacy and Service suitability of the ration components on trial.

These results suggest the need for designing mock-up ration packs for further field evaluation.

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FIELD EVALUATION OF AUSTRALIAN RATION PACKS
COMBAT RATION (ONE MAN) 1976/77 PACKAGING PROGRAMME
TRIALLED AT EXERCISE TOP POINT

INTRODUCTION

The evaluation of rations in the field is a regular activity undertaken by the Armed Forces Food Science Establishment (AFFSE) to ensure that ration items conform, among other things, to satisfactory requirements for user acceptability, adequacy, and Service suitability. Once these parameters have been quantified, changes can be recommended for implementation in the subsequent ration packing programme undertaken by the Services. This occurred for the 1976/77 ration packing programme for the Combat Ration (One Man) following the survey on the 1975/76 ration packing programme (Badcock and Lichtenstein, 1978). Consequently, an initial field user trial of the 76/77 pack was undertaken at Exercise Brahman Drive (Lichtenstein, 1979). The purpose of the present trial was to confirm these previous results.

TRIAL AND EVALUATION

A preliminary report on the trial organisation and procedures adopted for the conduct of the trial, has already been detailed (Lichtenstein, 1978). Briefly, there were some administrative problems associated with the conduct of the trial which may have affected the outcome of the trial objectives.

Two (understrength) infantry rifle platoons were selected as user trial subjects. These subjects were drawn from 3 PI A Coy and 5 PI B Coy 2/4 RAR during Exercise Top Point. The trial itself was conducted over a 4 day period to enable each platoon member to have access to and thereby consume each of the 4 varieties of the Combat Ration (One Man) being evaluated — menus A, B, C and D respectively.

Prior to commencing the trial, all sources of food, other than the specific trial ration issue, were removed from the subjects. After allowing for a free interchange of ration components among individual members of each separate platoon, all unconsumed (unopened) ration components which were discarded during the course of the trial, were returned for computation. This produced a consolidated platoon ration discard figure—as each platoon operated as a separate entity during the trial period.

Questionnaires were issued for completion and return at the end of the trial for subsequent analyses. These questionnaires were evaluated as previously described (Badcock and Lichtenstein, 1978). A sample questionnaire is set out at Annex A.

The activities undertaken by the subjects during the trial period were quite strenuous—typical of what could be expected from infantry soldiers engaged in either continental defence or counter revolutionary warfare.

RESULTS AND DISCUSSION

Analysis of Data

Answers to questions relating to the acceptability, quantity provided and the nature of the packaging of each ration component under investigation, are detailed in Table 1 for both platoons. The computed preference ratings are detailed in Table 2, shown in descending order of decreasing preference. Furthermore, Table 2 also compares actual discards with stated discards determined from answers to individual questionnaires.

Tables 3, 4 and 5 compare the summary acceptability, percent dislike and percent discard data for each of the trial platoons in both Exercises Top Point and Brahman Drive. Comparative data from the previous comprehensive survey on the 75/76 packing programme are also shown.

The similarities or differences in acceptability of each component as evaluated in the major surveys are emphasised in Figure 1.

Generally the data for the platoons in the present trial suggest that they were more critical of the 76/77 pack than their counterparts during Exercise Brahman Drive. This may have been a reflection of the administrative problems encountered during Exercise Top Point. All the new (76/77) items in the pack were rated lower during Exercise Top Point. In fact two of these items, Butter Concentrate and Butterscotch were found to be unacceptable. This is confirmed by other criteria (see Table 2).

Nevertheless, this trial continued to confirm the unacceptability of the Survival Biscuits, Cereal Block and fruit flavoured Drink Powders.

In contrast to the Brahman Drive survey, the actual consolidated platoon discard figures were lower than the users individually thought they were. Accordingly, this aspect of the survey was encouraging, as it indicated that in this instance the users were quite reliable in answering this aspect of the questionnaires.

User Comments

The comments from each platoon have been combined to reduce the complexity of this aspect of the questionnaire. Only 26% of the respondents failed to make a written comment. Generally the comments were similar to those reported previously (Badcock and Lichtenstein, 1978; Lichtenstein, 1979). Only those not noted previously are considered here.

As reflected by the data on the packaging, the respondents were rather critical of Butterscotch in this respect with 9% including a further comment in the comments section. Two percent considered Butterscotch as a poor replacement for Candy Creamy Fudge. Two percent considered that the Beef and Vegetables were too dry. Two percent, whilst admitting their preference for both the Rice and Potato with Onion Powder, were critical of the time set aside to prepare these items.

In support of some of their criticisms on the packaging, it was recommended by 26% of the respondents that all items should be packaged in camouflage coloured materials. Seven percent recommended the packaging of cheese in a container with a ring pack lid to make it easier to open. A lesser proportion of respondents (2%) suggested that all cans should have this facility. Two percent suggested that canned desserts such as custard, chocolate pudding and banana pudding should be introduced into the pack.

RECOMMENDATIONS

These recommendations should be considered along with previous recommendations (Badcock and Lichtenstein, 1978) not yet implemented. Because of the general improvement to the pack, as a result of previous implementations, effort should now be directed to the preparation of mock-up packs with particular emphasis on the incorporation of different canned and snack items not recently incorporated into ration packs.

These packs should then be trialled using a similar group of subjects, but ensuring far more satisfactory technical control over the proceedings.

ACKNOWLEDGEMENTS

My thanks are to the members of 3 Platoon and 5 Platoon 2/4 RAR for their forbearance in having to consume their ration pack meals in the vicinity of their colleagues consuming a fresh equivalent. Special thanks are accorded to HQ 6 TF and D Trials in particular Maj. M. Johnson.

I was ably assisted in the field by Lt. Col. D. Harveson (Det) AFFSE. I acknowledge also the assistance of Messrs. W. Badcock and D. Dunkley for their analyses of the questionnaires.

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Lichtenstein, D.J. (1979) AFFSE Report 2/79.

TABLE 1

Exercise: Top Point

COMBAT RATION (ONE MAN) QUESTIONNAIRE RESULTS

Units:— 3 Pl, A Coy, 2/4 RAR

5 Pl, B Coy, 2/4 RAR

No. of Subjects = 43

Average Age = 22.6

S.D. = 3.8

Av Yrs Service = 3.6

S.D. = 3

| ITEMS | ACCEPTABILITY | | | | | AMOUNT | | | | | |
|--------------------------|---------------------|------|---------------|---------------|-----------------|--------------|----------------|--------------|---------------|-----------------|----|
| | Acceptability Score | | %Dis- like | %Not tried | %Not replied | % Alright | %Not enough | %Too much | %Dis- card | %Not replied | |
| | Mean | S.D. | | | | | | | | | |
| Cereal Block | -0.64 | 1.32 | 53 | 2 | 0 | 51 | 0 | 9 | 40 | 0 | 77 |
| Survival Biscuits | -0.02 | 1.14 | 30 | 0 | 0 | 58 | 19 | 2 | 21 | 0 | 72 |
| Sweet Biscuits | 0.76 | 1.24 | 16 | 2 | 2 | 51 | 21 | 12 | 16 | 0 | 63 |
| Butter Concentrate | 0.05 | 1.26 | 28 | 7 | 0 | 51 | 9 | 9 | 28 | 2 | 74 |
| Cheese | 1.47 | 0.91 | 2 | 0 | 0 | 44 | 53 | 2 | 0 | 58 | 37 |
| Chocolate | 1.05 | 1.05 | 9 | 0 | 0 | 65 | 26 | 0 | 9 | 63 | 14 |
| Chewing Gum | 0.29 | 1.35 | 26 | 2 | 0 | 58 | 21 | 2 | 19 | 53 | 19 |
| Butterscotch | -0.33 | 1.43 | 49 | 2 | 0 | 28 | 9 | 14 | 49 | 23 | 23 |
| Sweetened Condensed Milk | 1.60 | 0.85 | 2 | 0 | 0 | 49 | 49 | 0 | 2 | 84 | 0 |
| Sugar | 1.50 | 0.86 | 2 | 2 | 0 | 51 | 33 | 12 | 5 | 44 | 23 |
| Tea Bags | 1.30 | 0.96 | 9 | 0 | 0 | 70 | 28 | 0 | 2 | 70 | 19 |
| Instant Coffee | 1.58 | 0.91 | 5 | 0 | 0 | 40 | 56 | 0 | 5 | 63 | 33 |
| Salt | 1.08 | 0.96 | 5 | 9 | 0 | 72 | 12 | 2 | 14 | 51 | 30 |
| Instant Rice | 1.17 | 1.14 | 14 | 5 | 0 | 53 | 30 | 5 | 12 | 91 | 2 |
| Potato with Onion Powder | 1.10 | 1.32 | 16 | 5 | 0 | 56 | 28 | 2 | 14 | 91 | 2 |
| Curry Powder | 1.26 | 0.94 | 7 | 7 | 2 | 79 | 9 | 0 | 12 | 88 | 7 |
| Orange Drink Powder | -0.82 | 1.40 | 49 | 21 | 0 | 21 | 7 | 2 | 70 | 86 | 2 |
| Lemon Drink Powder | -1.03 | 1.17 | 53 | 21 | 0 | 26 | 0 | 5 | 70 | 86 | 2 |
| Lime Drink Powder | -0.88 | 1.32 | 49 | 23 | 0 | 26 | 2 | 2 | 67 | 86 | 2 |
| Peaches | 1.83 | 0.54 | 2 | 0 | 5 | 33 | 63 | 0 | 2 | 40 | 44 |
| Pears | Item not issued | | | | | | | | | | |
| Two Fruits | 1.77 | 0.72 | 2 | 0 | 0 | 30 | 67 | 0 | 2 | 0 | 40 |
| Ham and Eggs | 0.56 | 1.40 | 23 | 0 | 0 | 51 | 35 | 5 | 9 | 0 | 44 |
| Plum Jam | 1.00 | 1.01 | 7 | 2 | 0 | 65 | 26 | 0 | 9 | 0 | 98 |
| Beef and Vegetables | 1.40 | 0.93 | 7 | 0 | 0 | 58 | 42 | 0 | 0 | 0 | 47 |
| Pork and Beans | 1.10 | 1.19 | 12 | 2 | 0 | 49 | 40 | 2 | 7 | 2 | 51 |
| Raspberry Jam | 1.10 | 1.03 | 7 | 2 | 0 | 67 | 23 | 0 | 9 | 0 | 91 |
| Corned Beef Hash | 0.81 | 1.22 | 16 | 0 | 0 | 58 | 28 | 5 | 7 | 2 | 49 |
| Camp Pie | 0.74 | 1.14 | 16 | 0 | 0 | 60 | 30 | 0 | 9 | 0 | 53 |
| Apricot Jam | 0.90 | 1.08 | 9 | 2 | 0 | 63 | 28 | 2 | 7 | 0 | 91 |
| Beef with Gravy | 0.79 | 1.28 | 16 | 0 | 0 | 49 | 37 | 7 | 7 | 0 | 51 |
| Sausages & Vegetables | 1.00 | 1.38 | 14 | 0 | 0 | 44 | 47 | 0 | 9 | 0 | 47 |
| Blackberry Jam | 1.21 | 1.00 | 7 | 2 | 0 | 70 | 21 | 2 | 7 | 0 | 95 |
| Beef Soup Powder | 1.27 | 1.12 | 7 | 5 | 0 | 60 | 26 | 5 | 9 | 0 | 74 |
| Luncheon Meat | 0.28 | 1.40 | 30 | 0 | 0 | 63 | 14 | 7 | 14 | 2 | 49 |
| Beef and Eggs | Item not issued | | | | | | | | | | |
| Peach Jam | Item not issued | | | | | | | | | | |
| Chicken Soup Powder | Item not issued | | | | | | | | | | |
| Corned Beef | Item not issued | | | | | | | | | | |

Overall Average = 0.77

76/77 RPP

% Married = 26

PACKAGING

| % right | %Too shiny | %Too crackly | %Too flimsy | %Too bulky | %Not replied |
|------------|---------------|-----------------|----------------|---------------|-----------------|
| 77 | 5 | 5 | 5 | 2 | 7 |
| 72 | 5 | 5 | 12 | 0 | 7 |
| 63 | 5 | 5 | 21 | 0 | 7 |
| 74 | 5 | 5 | 5 | 7 | 5 |
| 37 | 0 | 0 | 0 | 0 | 5 |
| 14 | 14 | 14 | 5 | 0 | 5 |
| 19 | 7 | 7 | 16 | 0 | 5 |
| 23 | 35 | 35 | 5 | 7 | 7 |
| 0 | 2 | 2 | 7 | 2 | 5 |
| 23 | 5 | 5 | 23 | 0 | 5 |
| 19 | 7 | 7 | 0 | 0 | 5 |
| 33 | 0 | 0 | 0 | 0 | 5 |
| 30 | 2 | 2 | 9 | 0 | 7 |
| 2 | 0 | 0 | 0 | 2 | 5 |
| 2 | 0 | 0 | 0 | 2 | 5 |
| 7 | 0 | 0 | 0 | 0 | 5 |
| 2 | 2 | 2 | 0 | 2 | 7 |
| 2 | 2 | 2 | 0 | 2 | 7 |
| 2 | 2 | 2 | 0 | 2 | 7 |
| 44 | 0 | 0 | 7 | 0 | 9 |
| 40 | 47 | 0 | 9 | 0 | 5 |
| 44 | 51 | 2 | 0 | 0 | 2 |
| 98 | 0 | 0 | 2 | 0 | 0 |
| 47 | 51 | 2 | 0 | 0 | 0 |
| 51 | 49 | 0 | 0 | 0 | 0 |
| 91 | 5 | 2 | 2 | 0 | 0 |
| 49 | 49 | 2 | 0 | 0 | 0 |
| 53 | 44 | 0 | 2 | 0 | 0 |
| 91 | 2 | 2 | 2 | 0 | 2 |
| 51 | 42 | 5 | 0 | 0 | 2 |
| 47 | 51 | 2 | 0 | 0 | 0 |
| 95 | 2 | 0 | 2 | 0 | 0 |
| 74 | 16 | 2 | 5 | 2 | 0 |
| 49 | 49 | 2 | 0 | 0 | 0 |

TABLE 2

Exercise: Top Point

COMBAT RATION (ONE MAN)

Units: 3 Pl, A Coy, 2/4 RAR 5 Pl, B Coy, 2/4 RAR

No. of Subjects = 43

PREFERENCE RATINGS AND OBJECTIVE DISCARDS

| ACCEPTABILITIES | (Mean Score) | DISLIKES | (%Users) | DISCARDS | (%Users) |
|--------------------------|--------------|--------------------------|----------|--------------------------|----------|
| Peaches | 1.8 | Peaches | 2 | Cheese | 0 |
| Two Fruits | 1.8 | Two Fruits | 2 | Beef and Vegetables | 0 |
| Sweetened Condensed Milk | 1.6 | Sweetened Condensed Milk | 2 | Two Fruits | 2 |
| Instant Coffee | 1.6 | Cheese | 2 | Peaches | 2 |
| Cheese | 1.5 | Sugar | 2 | Sweetened Condensed Milk | 2 |
| Sugar | 1.5 | Instant Coffee | 5 | Tea Bags | 2 |
| Beef and Vegetables | 1.4 | Salt | 5 | Instant Coffee | 5 |
| Beef Soup Powder | 1.3 | Beef and Vegetables | 7 | Sugar | 5 |
| Curry Powder | 1.3 | Beef Soup Powder | 7 | Blackberry Jam | 7 |
| Tea Bags | 1.3 | Blackberry Jam | 7 | Pork and Beans | 7 |
| Blackberry Jam | 1.2 | Raspberry Jam | 7 | Apricot Jam | 7 |
| Instant Rice | 1.2 | Plum Jam | 7 | Beef with Gravy | 7 |
| Salt | 1.1 | Curry Powder | 8 | Corned Beef Hash | 7 |
| Raspberry Jam | 1.1 | Tea Bags | 9 | Beef Soup Powder | 9 |
| Pork and Beans | 1.1 | Chocolate | 9 | Raspberry Jam | 9 |
| Potato with Onion Powder | 1.1 | Apricot Jam | 10 | Plum Jam | 9 |
| Plum Jam | 1.0 | Pork and Beans | 12 | Chocolate | 9 |
| Chocolate | 1.0 | Sausages & Vegetables | 14 | Sausages & Vegetables | 9 |
| Sausages & Vegetables | 1.0 | Instant Rice | 15 | Camp Pie | 9 |
| Apricot Jam | 0.9 | Beef with Gravy | 16 | Ham and Eggs | 9 |
| Beef with Gravy | 0.8 | Corned Beef Hash | 16 | Curry Powder | 12 |
| Corned Beef Hash | 0.8 | Camp Pie | 16 | Instant Rice | 12 |
| Sweet Biscuits | 0.8 | Potato with Onion Powder | 17 | Salt | 14 |
| Camp Pie | 0.7 | Sweet Biscuits | 17 | Potato with Onion Powder | 14 |
| Ham and Eggs | 0.6 | Ham and Eggs | 23 | Luncheon Meat | 14 |
| Chewing Gum | 0.3 | Chewing Gum | 26 | Sweet Biscuits | 16 |
| Luncheon Meat | 0.3 | Luncheon Meat | 30 | Chewing Gum | 19 |
| Survival Biscuits | 0.0 | Survival Biscuits | 30 | Survival Biscuits | 21 |
| Butter Concentrate | 0.0 | Butter Concentrate | 30 | Butter Concentrate | 28 |
| Butterscotch | -0.3 | Butterscotch | 50 | Cereal Block | 40 |
| Cereal Block | -0.6 | Cereal Block | 55 | Butterscotch | 49 |
| Orange Drink Powder | -0.8 | Orange Drink Powder | 62 | Lime Drink Powder | 67 |
| Lime Drink Powder | -0.9 | Lime Drink Powder | 64 | Orange Drink Powder | 70 |
| Lemon Drink Powder | -1.0 | Lemon Drink Powder | 68 | Lemon Drink Powder | 70 |

| DISCARDS | (%Components) |
|--------------------------|---------------|
| Peaches | 0 |
| Two Fruits | 0 |
| Cheese | 0 |
| Beef and Vegetables | 0 |
| Pork and Beans | 0 |
| Potato with Onion Powder | 0 |
| Sausages & Vegetables | 0 |
| Corned Beef Hash | 0 |
| Beef with Gravy | 0 |
| Camp Pie | 0 |
| Ham and Eggs | 0 |
| Luncheon Meat | 0 |
| Sweetened Condensed Milk | 1 |
| Chocolate | 1 |
| Sweet Biscuits | 2 |
| Blackberry Jam | 3 |
| Raspberry Jam | 3 |
| Beef Soup Powder | 5 |
| Sugar | 7 |
| Instant Rice | 7 |
| Apricot Jam | 7 |
| Instant Coffee | 8 |
| Plum Jam | 8 |
| Curry Powder | 9 |
| Tea Bags | 10 |
| Chewing Gum | 10 |
| Survival Biscuits | 12 |
| Salt | 15 |
| Cereal Block | 20 |
| Butter Concentrate | 25 |
| Butterscotch | 27 |
| Orange Drink Powder | 28 |
| Lime Drink Powder | 47 |
| Lemon Drink Powder | 49 |

TABLE 3

EXERCISE TOP POINT-SUMMARY: ACCEPTABILITY-COMPARISONS WITH PREVIOUS SURVEYS

| Ration Packing Programme Exercises | 75/76 | | 76/77 | | 76/77 | |
|------------------------------------|---------------------|--------------------|----------------------|------------------------|------------------------|------------------------|
| | All Other Exercises | | Brahman Drive | | Top Point | |
| Sub-units | Average All Units | Average Battalions | 5 Pl, B Coy 6 RAR | 8 Pl, C Coy 8/9 RAR | 3 Pl, A Coy 2/4 RAR | 5 Pl, B Coy 2/4 RAR |
| Average Age | 23.8 | 22.9 | 20.8 | 22.3 | 23.0 | 22.1 |
| Av Yrs Service | 4.7 | 4.0 | 2.9 | 3.1 | 4.1 | 3.1 |
| Percent Married | 41 | 31 | 25 | 32 | 27 | 24 |
| No of Subjects | 2346 | 1398 | 20 | 22 | 22 | 21 |
| Cereal Block | -0.28 | -0.56 | -0.86 | -0.68 | -0.92 | -0.40 |
| Survival Biscuits | -0.36 | -0.56 | -0.60 | 0.32 | 0.32 | -0.40 |
| Sweet Biscuits | 0.84 | 0.80 | 0.76 | 0.96 | 0.68 | 0.84 |
| Butter Concentrate | **** | **** | 0.84 | 0.80 | -0.16 | 0.24 |
| Cheese | 1.56 | 1.52 | 1.20 | 1.56 | 1.68 | 1.24 |
| Chocolate | 1.00 | 0.84 | 0.96 | 0.92 | 1.00 | 1.08 |
| Chewing Gum | 0.92 | 0.88 | 0.32 | 0.60 | 0.20 | 0.40 |
| Candy Creamy Fudge | -0.28 | -0.60 | **** | **** | **** | **** |
| Butterscotch | **** | **** | 1.20 | 1.00 | -0.04 | -0.64 |
| Sweetened Condensed Milk | 1.64 | 1.72 | 1.16 | 1.44 | 1.52 | 1.72 |
| Sugar | 1.64 | 1.76 | 1.20 | 1.28 | 1.52 | 1.52 |
| Tea Bags | 1.32 | 1.28 | 1.44 | 1.08 | 1.36 | 1.24 |
| Instant Coffee | 1.56 | 1.60 | 1.36 | 1.32 | 1.40 | 1.76 |
| Salt | 1.20 | 1.28 | 0.72 | 0.64 | 1.20 | 0.96 |
| Instant Rice | 1.12 | 1.12 | 0.28 | 1.40 | 1.32 | 1.00 |
| Potato with Onion Powder | **** | **** | 1.36 | 1.68 | 1.04 | 1.16 |
| Curry Powder | 0.84 | 0.92 | 0.48 | 0.64 | 1.32 | 1.16 |
| Orange Drink Powder | 0.44 | 0.20 | 1.00 | -0.16 | -1.20 | -0.48 |
| Lemon Drink Powder | 0.40 | 0.16 | 0.72 | -0.08 | -1.08 | -1.00 |
| Lime Drink Powder | 0.32 | 0.12 | 1.00 | -0.08 | -1.12 | -0.68 |
| Peaches | **** | **** | 2.00 | 2.00 | 1.92 | 1.76 |
| Pears | **** | **** | 2.00 | 2.00 | **** | **** |
| Two Fruits | **** | **** | 2.00 | 2.00 | 1.92 | 1.60 |
| Ham and Eggs | 0.44 | 0.28 | 0.56 | 0.08 | 0.28 | 0.84 |
| Plum Jam | 0.96 | 0.84 | 1.24 | 1.20 | 1.24 | 0.76 |
| Beef and Vegetables | 1.32 | 1.32 | 0.92 | 1.52 | 1.56 | 1.24 |
| Pork and Beans | 1.04 | 1.04 | 0.64 | 0.64 | 1.08 | 1.12 |
| Raspberry Jam | 1.08 | 0.96 | 1.32 | 1.36 | 1.40 | 0.76 |
| Corned Beef Hash | 0.68 | 0.52 | 0.76 | 0.36 | 0.96 | 0.68 |
| Camp Pie | 0.52 | 0.56 | 0.40 | -0.04 | 0.80 | 0.68 |
| Apricot Jam | 0.96 | 0.84 | 1.32 | 1.04 | 1.04 | 0.76 |
| Beef with Gravy | 1.04 | 0.92 | 0.64 | 1.36 | 0.60 | 1.00 |
| Sausages and Vegetables | 0.84 | 0.76 | 0.76 | 1.52 | 0.60 | 1.44 |
| Blackberry Jam | 1.08 | 0.96 | 1.24 | 1.08 | 1.36 | 1.04 |
| Beef Soup Powder | 1.08 | 0.96 | 0.76 | 0.92 | 1.32 | 1.20 |
| Luncheon Meat | 0.40 | 0.32 | -0.64 | 0.00 | 0.24 | 0.32 |
| Beef and Eggs | 0.52 | 0.36 | 0.52 | 0.24 | **** | **** |
| Peach Jam | 0.92 | 0.80 | 1.20 | 1.08 | **** | **** |
| Chicken Soup Powder | 1.16 | 1.04 | 1.00 | 1.20 | **** | **** |
| Corned Beef | 0.36 | 0.00 | 0.00 | -0.04 | **** | **** |
| Overall Average | 0.83 | 0.73 | 0.85 | 0.88 | 0.78 | 0.76 |

TABLE 4

EXERCISE TOP POINT—SUMMARY: PERCENT DISLIKE—COMPARISONS WITH PREVIOUS SURVEYS

| Ration Packing Programme Exercises | 75/76 All Other Exercises | | 76/77 Brahman Drive | | 76/77 Top Point | |
|---------------------------------------|------------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| | Average All Units | Average Battalions | 5 Pl, B Coy 6 RAR | 8 Pl, C Coy 8/9 RAR | 3 Pl, A Coy 2/4 RAR | 5 Pl, B Coy 2/4 RAR |
| Sub-units | | | | | | |
| Average Age | 23.8 | 22.9 | 20.8 | 22.3 | 23.0 | 22.1 |
| Av Yrs Service | 4.7 | 4.0 | 2.9 | 3.1 | 4.1 | 3.1 |
| Percent Married | 41 | 31 | 25 | 32 | 27 | 24 |
| No of Subjects | 2346 | 1398 | 20 | 22 | 22 | 21 |
| Cereal Block | 47 | 55 | 60 | 55 | 59 | 48 |
| Survival Biscuits | 47 | 54 | 50 | 18 | 23 | 38 |
| Sweet Biscuits | 17 | 18 | 15 | 14 | 18 | 14 |
| Butter Concentrate | ** | ** | 10 | 9 | 36 | 19 |
| Cheese | 3 | 4 | 10 | 0 | 0 | 5 |
| Chocolate | 13 | 17 | 10 | 14 | 9 | 10 |
| Chewing Gum | 12 | 14 | 20 | 14 | 27 | 24 |
| Candy Creamy Fudge | 49 | 58 | ** | ** | ** | ** |
| Butterscotch | ** | ** | 0 | 14 | 45 | 52 |
| Sweetened Condensed Milk | 3 | 2 | 5 | 0 | 5 | 0 |
| Sugar | 2 | 1 | 0 | 0 | 5 | 0 |
| Tea Bags | 9 | 10 | 0 | 5 | 9 | 10 |
| Instant Coffee | 7 | 6 | 5 | 0 | 9 | 0 |
| Salt | 3 | 3 | 5 | 5 | 5 | 5 |
| Instant Rice | 11 | 11 | 20 | 5 | 9 | 19 |
| Potato with Onion Powder | ** | ** | 5 | 0 | 18 | 14 |
| Curry Powder | 17 | 16 | 15 | 18 | 5 | 10 |
| Orange Drink Powder | 28 | 34 | 5 | 36 | 50 | 48 |
| Lemon Drink Powder | 29 | 35 | 15 | 36 | 45 | 62 |
| Lime Drink Powder | 31 | 36 | 5 | 36 | 45 | 52 |
| Peaches | ** | ** | 0 | 0 | 0 | 5 |
| Pears | ** | ** | 0 | 0 | ** | ** |
| Two Fruits | ** | ** | 0 | 0 | 0 | 5 |
| Ham and Eggs | 29 | 32 | 30 | 32 | 32 | 14 |
| Plum Jam | 10 | 13 | 0 | 5 | 0 | 14 |
| Beef and Vegetables | 7 | 7 | 20 | 0 | 5 | 10 |
| Pork and Beans | 14 | 15 | 25 | 23 | 18 | 5 |
| Raspberry Jam | 8 | 10 | 0 | 5 | 0 | 14 |
| Corned Beef Hash | 23 | 27 | 20 | 32 | 18 | 14 |
| Camp Pie | 26 | 26 | 30 | 41 | 14 | 19 |
| Apricot Jam | 10 | 12 | 0 | 9 | 5 | 14 |
| Beef with Gravy | 14 | 17 | 20 | 5 | 27 | 5 |
| Sausages and Vegetables | 20 | 23 | 25 | 0 | 23 | 5 |
| Blackberry Jam | 9 | 11 | 0 | 9 | 0 | 14 |
| Beef Soup Powder | 9 | 11 | 10 | 14 | 5 | 10 |
| Luncheon Meat | 29 | 32 | 55 | 36 | 32 | 29 |
| Beef and Eggs | 27 | 31 | 30 | 36 | ** | ** |
| Peach Jam | 11 | 14 | 0 | 5 | ** | ** |
| Chicken Soup Powder | 9 | 10 | 5 | 9 | ** | ** |
| Corned Beef | 32 | 41 | 40 | 41 | ** | ** |
| Overall Average | 18 | 21 | 14 | 15 | 18 | 18 |

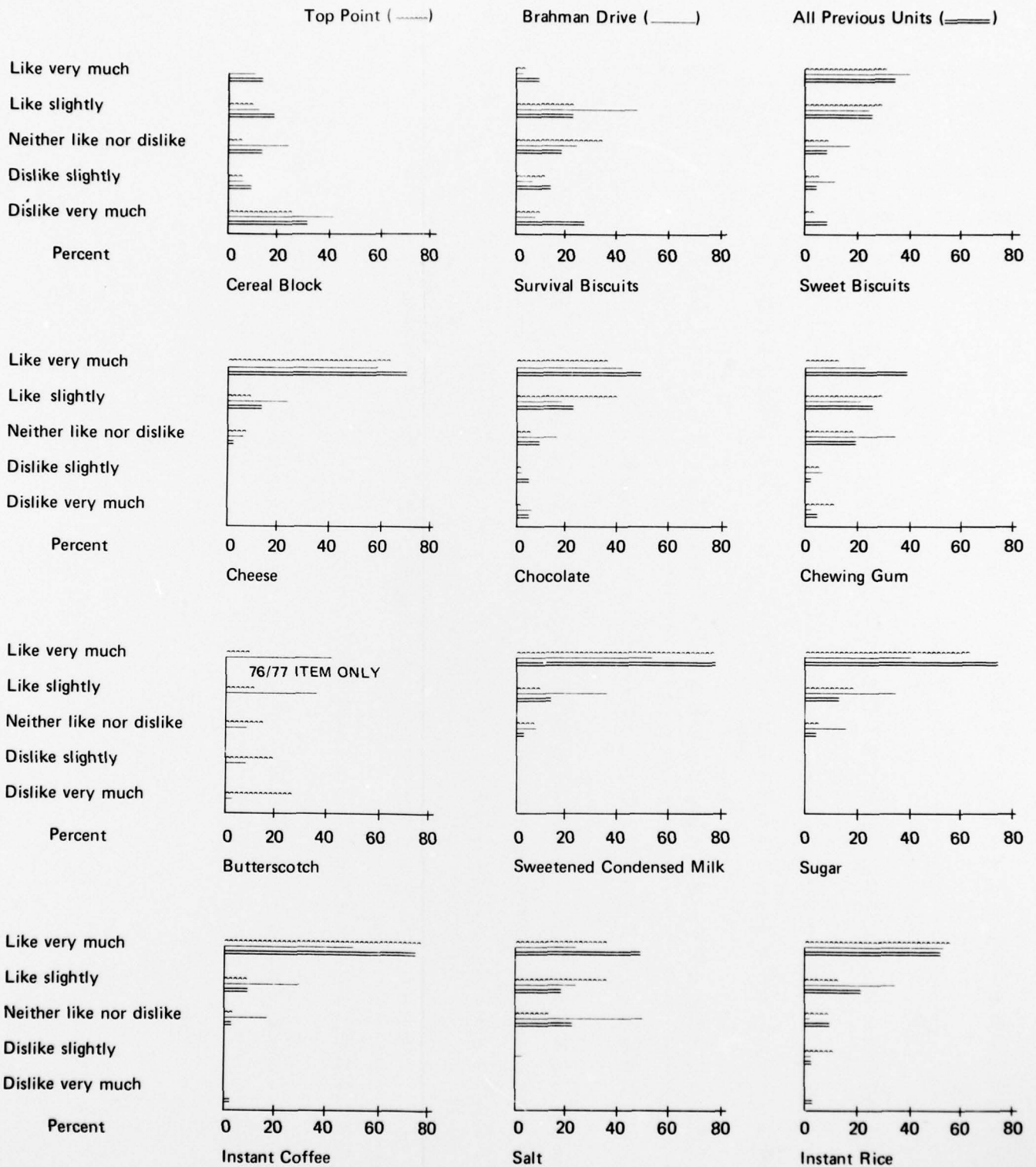
TABLE 5

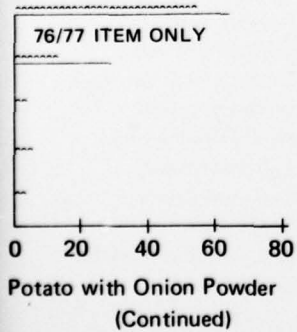
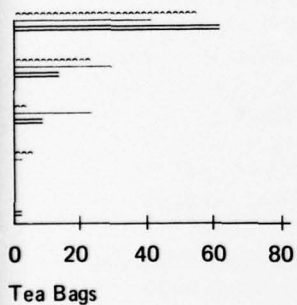
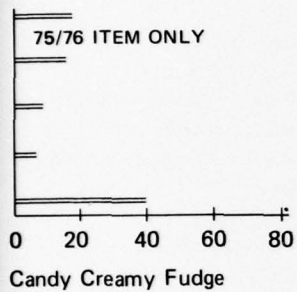
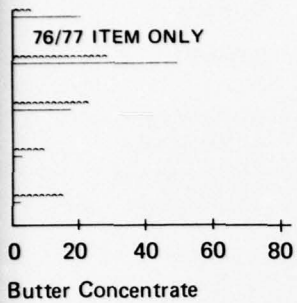
EXERCISE TOP POINT—SUMMARY: PERCENT DISCARD—COMPARISONS WITH PREVIOUS SURVEYS

| Ration Packing Programme Exercises | 75/76 All Other Exercises | | 76/77 Brahman Drive | | | | 76/77 Top Point | | | |
|---------------------------------------|------------------------------|-----------------------|------------------------|-------|------------------------|-------|------------------------|-------|------------------------|-------|
| | Average All Units | Average Battalions | 5 PI, B Coy 6 RAR | | 8 PI, C Coy 8/9 RAR | | 3 PI, A Coy 2/4 RAR | | 5 PI, B Coy 2/4 RAR | |
| Sub-units | | | | | | | | | | |
| Average Age | 23.8 | 22.9 | 20.8 | | 22.3 | | 23.0 | | 22.1 | |
| Av Yrs Service | 4.7 | 4.0 | 2.9 | | 3.1 | | 4.1 | | 3.1 | |
| Percent Married | 41 | 31 | 25 | | 32 | | 27 | | 24 | |
| No of Subjects | 2346 | 1398 | 20 | | 22 | | 22 | | 21 | |
| | Ques | Ques | Ques | Count | Ques | Count | Ques | Count | Ques | Count |
| Cereal Block | 38 | 44 | 40 | 54 | 50 | 58 | 50 | 16 | 29 | 23 |
| Survival Biscuits | 22 | 27 | 40 | 41 | 9 | 48 | 18 | 0 | 24 | 23 |
| Sweet Biscuits | 8 | 8 | 0 | 14 | 0 | 15 | 27 | 2 | 5 | 2 |
| Butter Concentrate | ** | ** | 10 | 35 | 14 | 16 | 41 | 18 | 14 | 31 |
| Cheese | 2 | 3 | 5 | 5 | 0 | 3 | 0 | 0 | 0 | 0 |
| Chocolate | 7 | 9 | 10 | 7 | 14 | 16 | 9 | 1 | 10 | 1 |
| Chewing Gum | 14 | 17 | 10 | 45 | 18 | 41 | 18 | 10 | 19 | 10 |
| Candy Creamy Fudge | 36 | 39 | ** | ** | ** | ** | ** | 18 | ** | 35 |
| Butterscotch | ** | ** | 0 | 3 | 14 | 7 | 45 | ** | 52 | ** |
| Sweetened Condensed Milk | 2 | 2 | 0 | 5 | 0 | 13 | 5 | 2 | 0 | 0 |
| Sugar | 3 | 1 | 0 | 26 | 0 | 27 | 5 | 6 | 5 | 7 |
| Tea Bags | 9 | 9 | 0 | 19 | 9 | 10 | 5 | 11 | 0 | 8 |
| Instant Coffee | 4 | 3 | 0 | 19 | 5 | 9 | 5 | 14 | 5 | 1 |
| Salt | 7 | 6 | 5 | 35 | 0 | 25 | 9 | 10 | 19 | 20 |
| Instant Rice | 10 | 9 | 20 | 57 | 5 | 12 | 9 | 0 | 14 | 13 |
| Potato with Onion Powder | ** | ** | 5 | 5 | 0 | 5 | 18 | 0 | 10 | 0 |
| Curry Powder | 15 | 14 | 25 | 45 | 9 | 35 | 14 | 7 | 10 | 11 |
| Orange Drink Powder | 25 | 28 | 10 | 20 | 32 | 48 | 86 | 27 | 52 | 29 |
| Lemon Drink Powder | 25 | 30 | 10 | 15 | 32 | 36 | 86 | 41 | 52 | 57 |
| Lime Drink Powder | 25 | 30 | 5 | 20 | 32 | 41 | 82 | 32 | 52 | 62 |
| Peaches | ** | ** | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Pears | ** | ** | 0 | 0 | 0 | 0 | ** | ** | ** | ** |
| Two Fruits | ** | ** | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Ham and Eggs | 15 | 19 | 15 | 5 | 23 | 5 | 18 | 0 | 0 | 0 |
| Plum Jam | 11 | 12 | 0 | 25 | 5 | 14 | 5 | 5 | 14 | 10 |
| Beef and Vegetables | 2 | 2 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pork and Beans | 6 | 8 | 0 | 0 | 9 | 0 | 14 | 0 | 0 | 0 |
| Raspberry Jam | 10 | 12 | 0 | 15 | 0 | 0 | 0 | 0 | 19 | 5 |
| Corned Beef Hash | 8 | 11 | 5 | 0 | 5 | 0 | 9 | 0 | 5 | 0 |
| Camp Pie | 11 | 14 | 15 | 10 | 18 | 15 | 9 | 0 | 10 | 0 |
| Apricot Jam | 12 | 14 | 0 | 30 | 0 | 27 | 0 | 0 | 14 | 14 |
| Beef with Gravy | 7 | 8 | 10 | 0 | 0 | 0 | 14 | 0 | 0 | 0 |
| Sausages and Vegetables | 8 | 11 | 0 | 0 | 0 | 0 | 14 | 0 | 5 | 0 |
| Blackberry Jam | 10 | 13 | 0 | 20 | 0 | 8 | 0 | 0 | 14 | 5 |
| Beef Soup Powder | 12 | 13 | 5 | 45 | 9 | 14 | 0 | 5 | 19 | 0 |
| Luncheon Meat | 14 | 18 | 25 | 10 | 18 | 0 | 14 | 0 | 14 | 0 |
| Beef and Eggs | 13 | 18 | 5 | 10 | 23 | 9 | ** | ** | ** | ** |
| Peach Jam | 13 | 15 | 0 | 25 | 0 | 32 | ** | ** | ** | ** |
| Chicken Soup Powder | 11 | 12 | 10 | 50 | 9 | 22 | ** | ** | ** | ** |
| Corned Beef | 16 | 21 | 15 | 15 | 18 | 5 | ** | ** | ** | ** |
| Overall Average | 13 | 15 | 8 | 19 | 10 | 16 | 19 | 7 | 15 | 11 |

FIGURE 1

ACCEPTABILITY COMPARISONS OF INDIVIDUAL COMPONENTS

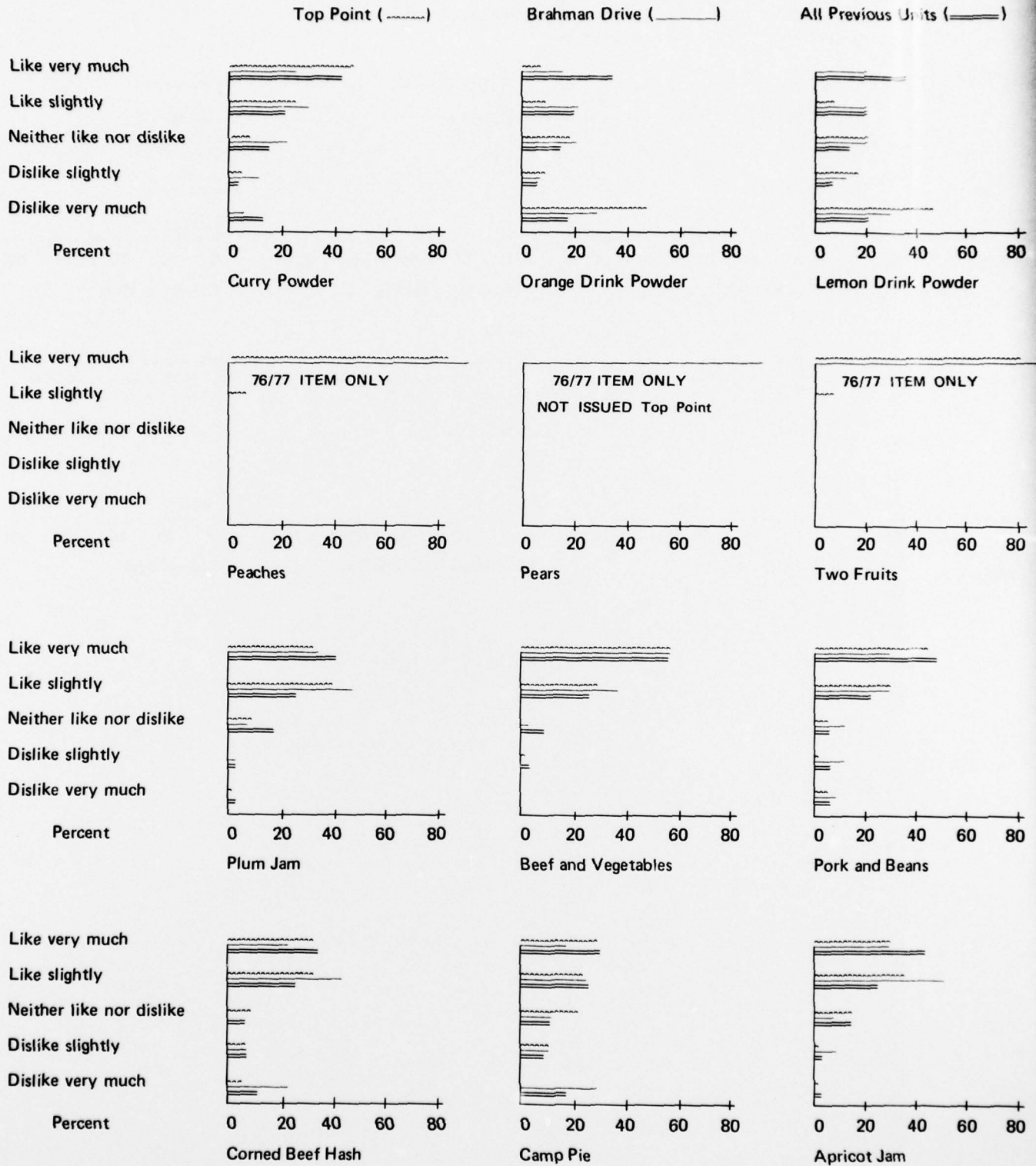


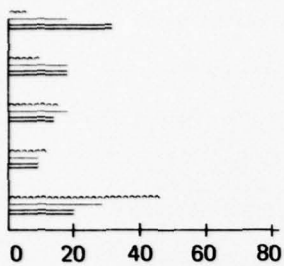


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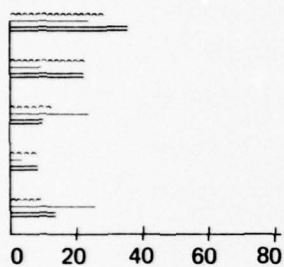
FIGURE 1 (Continued)

ACCEPTABILITY COMPARISONS OF INDIVIDUAL COMPONENTS

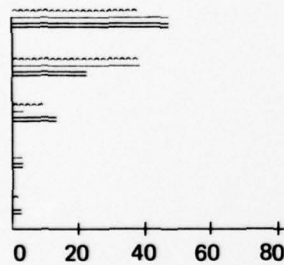




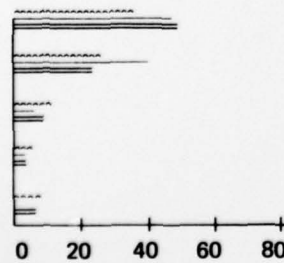
Lime Drink Powder



Ham and Eggs



Raspberry Jam



Beef with Gravy

(Continued)

FIGURE 1 (Continued)

ACCEPTABILITY COMPARISONS OF INDIVIDUAL COMPONENTS

Top Point (-----)

Brahman Drive (-----)

All Previous Units (=====)

Like very much

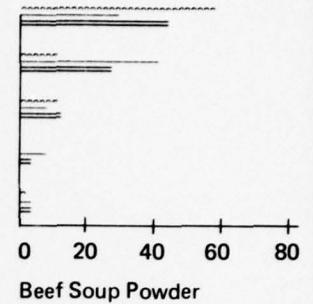
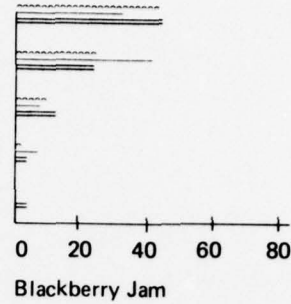
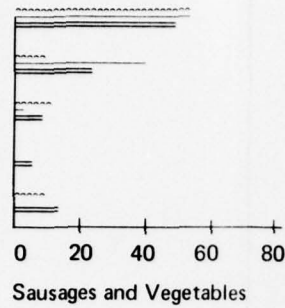
Like slightly

Neither like nor dislike

Dislike slightly

Dislike very much

Percent



Like very much

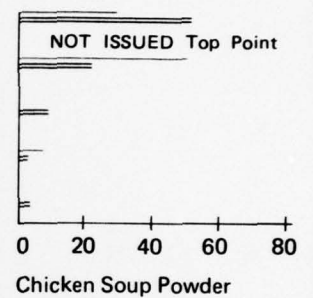
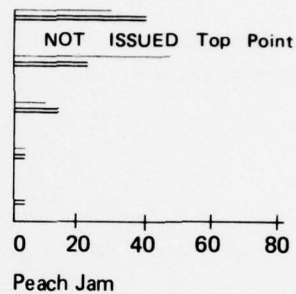
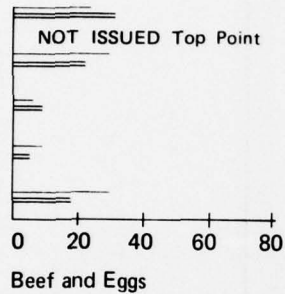
Like slightly

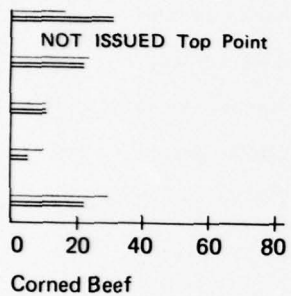
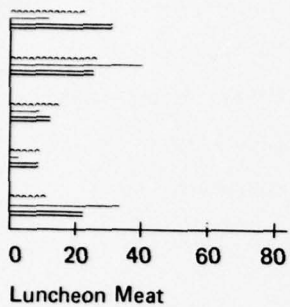
Neither like nor dislike

Dislike slightly

Dislike very much

Percent





2

ITEMS COMMON TO MORE THAN

Like Extremely
Like Moderately
Neither Like Nor Dislike
Dislike Moderately
Dislike Extremely
Did Not Try It

Not Enough
About Right
Too Much
Discarded It

Satisfactory
Too Shiny
Too Crackly
Too Flimsy
Too Bulky

[illegible]**Menu C**

Like Extremely
Like Moderately
Neither Like Nor Dislike
Dislike Moderately
Dislike Extremely
Did Not Try It

Not Enough
About Right
Too Much
Discarded It

Satisfactory
Too Shiny
Too Crackly
Too Flimsy
Too Bulky

| Ham & Eggs | Plum Jam | Beef & Veggies | Pork & Beans | Raspberry Jam | Corned Beef Hash | Camp Pie | Apricot Jam | Beef with Gravy |
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ONE VARIETY

| | Instant Rice | Potato With Onion Powder | Curry Powder | Orange Drink Powder | Lemon Drink Powder | Lime Drink Powder | Peaches | Pears | Two Fruits |
|-----|--------------------------|--------------------------------|--------------------------|---------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
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Menu D

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Exercise

Annex A

*Armed Forces Food Science Establishment
Scottsdale, Tasmania*

**COMBAT RATION (ONE MAN)
USER QUESTIONNAIRE**

1. As a consumer of the rations you are in the best position to advise us on any changes that should be made.
2. Please complete this questionnaire by recording your *honest* reactions.
3. All answers will be treated as confidential.

Name and Rank

Unit Squadron Regiment Corps ARA
Company ARes
Battery

(Delete words not applicable)

Age

Married ☐

Single ☐

Years of Service

Comments:

Please tell us what aspects of the rations you found faulty. Can you suggest any improvements? (Include any "extras" that you may have taken with you into the field).

This image shows a full page of a document template designed for handwritten notes or essays. It features approximately 28 evenly spaced, horizontal grey lines across the entire width of the page. The lines are thin and light, providing a guide for writing without being distracting. There are no margins, headers, footers, or other markings present on the page.

Thank you for your help. When the results are gathered and analysed, your thoughts could be important in improving the ration packs.

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